

Title (en)

Apparatus for controlling gearshifts in automatic transmission.

Title (de)

Gerät zur Gangschaltungssteuerung in automatischen Getrieben.

Title (fr)

Dispositif pour commander des changements de rapports des transmissions automatiques.

Publication

EP 0354493 A2 19900214 (EN)

Application

EP 89114470 A 19890804

Priority

- JP 19665688 A 19880806
- JP 19665888 A 19880806
- JP 19666088 A 19880806

Abstract (en)

If the accelerator pedal condition is a power-on condition and the gearshift type is an upshift, or the accelerator pedal condition is a power-off condition and the gearshift type is a downshift, then a torque for engaging the next-gear-position gearshift means is established based on the engine torque to be transmitted from the engine to the next-gear-position gearshift means, and an inertia torque required to make the rotational speed of the input member of the next-gear-position gearshift means vary as desired with respect to the gearshift. If the accelerator pedal condition is a power-on condition and the gearshift type is a downshift, or the accelerator pedal condition is a power-off condition and the gearshift type is an upshift, then the ratio between the rotational speeds of the input and output members of the next-gear-position gearshift means is detected. The torque for engaging the next-gear-position gearshift means is lowered after the gearshift is started until the detected rotational speed ratio reaches a predetermined value. After the detected rotational speed ratio has reached the predetermined value, the engaging torque is set to a value large enough to engage the gearshift means.

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Cited by

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